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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/08/2019

Lab ID	:	**CP-2019-09-23-56**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.
Agency	:	Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/25/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	27/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	30/07/2019	27/08/2019	151.13 X 150.10 X 150.97	22685	**8.442**	542.4	23.9	23.3
2	PCC	M20	30/07/2019	27/08/2019	149.94 X 151.09 X 150.60	22654	**8.063**	507.7	22.4	
3	PCC	M20	30/07/2019	27/08/2019	149.81 X 151.63 X 151.26	22716	**8.075**	536.9	23.6	

Note:
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-23-56** **Date: 07/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.

Agency : Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.

Customer's Reference : EE(Project)/Ynk Zone/WO/25/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	31/07/2019	07/08/2019	151.22 X 150.93 X 150.01	22825	**8.569**	429.4	18.8	18.4
2	PCC	M20	31/07/2019	07/08/2019	150.63 X 150.54 X 149.07	22676	**8.514**	410.0	18.1	
3	PCC	M20	31/07/2019	07/08/2019	149.65 X 150.61 X 151.76	22538	**8.325**	412.1	18.3	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-23-56** **Date: 28/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.

Agency : Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.

Customer's Reference : EE(Project)/Ynk Zone/WO/25/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	31/07/2019	28/08/2019	151.90 X 149.83 X 150.86	22759	**8.442**	534.6	23.5	23.3
2	PCC	M20	31/07/2019	28/08/2019	149.20 X 150.71 X 149.02	22486	**8.063**	504.5	22.4	
3	PCC	M20	31/07/2019	28/08/2019	150.44 X 149.92 X 149.52	22553	**8.075**	537.7	23.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-23-56** **Date: 07/08/2019**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.

Agency : Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.

Customer's Reference : EE(Project)/Ynk Zone/WO/25/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-08-19

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	31/07/2019	07/08/2019	151.55 X 150.18 X 150.88	22760	**8.569**	421.9	18.5	18.5
2	PCC	M20	31/07/2019	07/08/2019	150.87 X 150.03 X 149.84	22635	**8.514**	420.7	18.6	
3	PCC	M20	31/07/2019	07/08/2019	149.07 X 149.85 X 150.92	22339	**8.325**	408.6	18.3	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/08/2019

Lab ID	:	**CP-2019-09-23-56**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.
Agency	:	Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/25/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-08-19
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	28/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	31/07/2019	28/08/2019	151.06 X 149.26 X 151.54	22547	**8.442**	528.0	23.4	23.3
2	PCC	M20	31/07/2019	28/08/2019	151.73 X 150.62 X 151.91	22853	**8.063**	513.0	22.4	
3	PCC	M20	31/07/2019	28/08/2019	150.54 X 149.32 X 151.77	22478	**8.075**	537.5	23.9	

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	CP-2019-09-23-56 **Date: 29-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.
Agency	:	Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.
Customer Reference	:	EE(Project)/Ynk Zone/WO/25/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	25-07-19

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	400	400	25.11	8.9	8.95	The average wet transverse strength shall not be less than $3N/mm^2$.
2	400	400	25.43	9.2		
3	400	400	25.41	8.5		
4	400	400	25.13	8.7		
5	400	400	25.47	9.3		
6	400	400	25.22	9.1		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	400	25.63	2.31	2.20	The average percentage of water absorption shall not exceed 10.
2	400	400	25.43	2.11		
3	400	400	25.14	2.17		
4	400	400	25.18	2.06		
5	400	400	25.16	2.45		
6	400	400	25.17	2.09		

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End of Report

CEMENT CONCRETE PRECAST CONCRETE BLOCKS FOR PAVING

Lab ID	:	**CP-2019-09-23-56**	**Date: 06-08-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.	
Agency	:	Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/25/19-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	03-08-19	
Sample Type/ Size	:	Precast concrete blocks for paving	
Reference to BIS codes	:	IS 15658:2006	
Date of test	:	03-08-19	

1.Compressive Strength

Sl.No.	Dimension (mm)			Compressive Strength	Average
	L	B	T	(N/mm^2)	(N/mm^2)
1	197.22	159.88	75.99	32.5	33.1
2	198.48	159.64	75.25	33.8	
3	199.54	159.54	75.48	32.5	
4	197.68	159.22	75.55	33.5	
5	198.11	159.87	75.32	32.8	
6	198.18	160.02	75.11	33.4	
7	198.45	158.99	75.98	33.2	
8	197.22	159.22	75.12	32.8	

2. Water Absorption

Sl.No.	Wet Weight	Dry weight	Thickness	Water Absorption (%)	Average (%)
1	4.987	4.828	75.85	3.29	3.64
2	4.898	4.721	75.22	3.75	
3	4.988	4.802	75.44	3.87	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2019-09-23-56**

Date: 24-07-19

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.

Agency : Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.

Customer's Reference : EE(Project)/Ynk Zone/WO/25/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-07-19

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 20/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2019-09-23-56** **Date: 19-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Park beside to Ganesha Temple Sahakara Nagara in Ward No.08.
Agency	:	Sri.P Krishna, #45, 5th Cros, 4th Block,Rajajinagar, Bangalore-10.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/25/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	16-07-19

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	199	198	15879	33.130	2086.4	2010.7	Not less than 1800Kg/m^3
2	404	199	201	16160	31.755	1965.1		
3	400	202	199	16079	31.847	1980.6		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : **CP-2019-09-23-56** **Date: 19-07-19**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	199	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	202	203	
3	401	200	201	
4	400	202	199	
5	402	201	199	
6	400	202	201	
7	400	203	203	
8	402	203	203	
9	400	200	202	
10	403	202	202	
11	403	201	201	
12	403	201	203	
13	403	202	199	
14	401	200	201	
15	404	201	199	
16	399	202	199	
17	401	200	201	
18	401	201	203	
19	402	201	201	
20	403	202	201	
Average of 20	**402**	**201**	**201**	

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Lab ID : **CP-2019-09-23-56** **Date: 19-07-19**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79721	362.8	4.6	4.6
2	403	202	81213	355.2	4.4	
3	401	200	80182	387.3	4.8	
4	400	202	80743	380.1	4.7	
5	402	201	81038	386.5	4.8	
6	400	202	80781	352.2	4.4	
7	400	203	81050	382.6	4.7	
8	402	203	81394	379.0	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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